

Claims

What is claimed is:

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1. A method of sending a HTTP request to a web server, comprising:
receiving a HTTP request including HTTP request data;
associating a connection identifier with the HTTP request;
repeating the receiving and associating steps for one or more HTTP
requests; and
sending the connection identifier and the associated HTTP request data
10 for the one or more HTTP requests in a single stream.
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2. The method as recited in claim 1, further comprising:
creating a permanent listening stream;
wherein sending the connection identifier and the associated HTTP
request data for the one or more HTTP requests comprises sending the
connection identifier and the associated HTTP request data for the one or
more HTTP requests in the permanent listening stream.
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3. The method as recited in claim 2, wherein the permanent listening
stream connects a network cache accelerator to a file system to enable the one
or more HTTP requests to be received from the network cache accelerator,
stored with associated connection identifiers, and accessed by the file system,
the network cache accelerator being adapted for communicating with one or
more clients corresponding to the one or more HTTP requests, the file system
25 being adapted for sending the HTTP requests to the web server and receiving
HTTP responses from the web server.
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4. The method as recited in claim 2, further comprising:
creating a stream;
obtaining HTTP response data associated with one of the HTTP
requests; and
sending the HTTP response data and the connection identifier in the
stream.
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5. The method as recited in claim 4, wherein the stream connects a network cache accelerator to a file system, obtaining the HTTP response data is performed by the file system and sending the HTTP response data and the connection identifier in the stream comprises sending the HTTP response data and the connection identifier in the stream from the file system to the network cache accelerator.
6. The method as recited in claim 4, wherein creating the stream is performed in parallel with reading of an HTTP request and preparation of a corresponding HTTP response by the web server..
7. The method as recited in claim 4, wherein creating the stream is further performed asynchronously with the reading of the HTTP request and the preparation of the corresponding HTTP response by the web server.
8. The method as recited in claim 1, wherein sending the connection identifier and the associated HTTP request data for the one or more HTTP requests comprises sending the connection identifier and the associated HTTP request data for the one or more HTTP requests to a HTTP process.
9. The method as recited in claim 8, wherein the HTTP process is a HTTP daemon.
10. The method as recited in claim 1, further comprising:
instantiating an object;
providing the connection identifier and the associated HTTP request data for the one or more HTTP requests in the object; and
wherein sending the connection identifier and the associated HTTP request data for the one or more HTTP requests comprises sending the object to a HTTP process.
11. The method as recited in claim 1, further comprising:

storing the connection identifier and the associated HTTP request data for each of the one or more HTTP requests.

- 5 12. The method as recited in claim 1, wherein sending the connection identifier and the associated HTTP request data for the one or more HTTP requests in a single stream comprises:

10 sending the connection identifier and the associated HTTP request data to a cache manager capable of storing the connection identifier and the associated HTTP request data and retrieving the HTTP request data when the connection identifier is received.

13. The method as recited in claim 1, further comprising:
15 receiving a read request from the web server;
sending HTTP request data to the web server in response to the read request.

14. The method as recited in claim 13, wherein sending HTTP request data to the web server in response to the read request comprises:
20 sending a file descriptor including the HTTP request data, the file descriptor having a private attachment including the connection identifier associated with the HTTP request data.

15. The method as recited in claim 13, further comprising:
25 receiving HTTP response data associated with the HTTP request data from the web server.

16. The method as recited in claim 15, wherein receiving HTTP response data associated with the HTTP request data from the web server comprises:
30 receiving a file descriptor including the HTTP response data, the file descriptor having a private attachment including the connection identifier associated with the HTTP request data.

17. The method as recited in claim 16, further comprising:
35 obtaining the connection identifier from the private attachment; and

storing the HTTP response data such that the HTTP response data is associated with one of the HTTP requests and the obtained connection identifier.

- 5 18. The method as recited in claim 15, further comprising:
storing the HTTP response data such that the HTTP response data is associated with one of the HTTP requests and the associated connection identifier.
- 10 19. The method as recited in claim 15, further comprising:
sending a write command including the connection identifier and the HTTP response data to a data transport module capable of transmitting the HTTP response data to a client.
- 15 20. The method as recited in claim 15, further comprising:
creating a stream; and
sending the HTTP response data and the connection identifier in the stream.
- 20 21. The method as recited in claim 20, further comprising:
instantiating an object;
providing the HTTP response data and the connection identifier in the object; and
25 wherein sending the HTTP response data and the connection identifier comprises sending the object to a data transport module for transmission to a client.
- 30 22. A method of processing a HTTP response including HTTP response data received from a web server, comprising:
receiving HTTP response data from a HTTP process;
obtaining a connection identifier associated with the HTTP response data;
35 creating a stream; and

sending the HTTP response data and the obtained associated connection identifier in the stream to a module for transmission to a client.

5 23. A method of processing a HTTP request including HTTP request data, comprising:

receiving HTTP request data and an associated connection identifier;
obtaining HTTP response data associated with the HTTP request data;

and

10 sending the HTTP response data and the connection identifier to a module for transmission to a client.

24. The method as recited in claim 23, further comprising:

creating a data stream; and

15 sending the HTTP response data and the connection identifier in the data stream.

25. The method as recited in claim 24, further comprising:

20 receiving the HTTP response data from a HTTP process;

wherein creating a data stream and sending the HTTP response data and the connection identifier in the data stream are performed by a file server for transmission to a data transport module.

25 26. The method as recited in claim 24, further comprising:

instantiating an object;

providing the HTTP response data and the connection identifier in the object; and

30 wherein sending the HTTP response data and the connection identifier comprises sending the object to a data transport module for transmission to a client.

27. A computer-readable medium storing thereon computer readable instructions for sending a HTTP request to a web server, comprising:

35 instructions for receiving a HTTP request including HTTP request data;

instructions for associating a connection identifier with the HTTP request;

instructions for repeating the receiving and associating steps for one or more HTTP requests; and

- 5 instructions for sending the connection identifier and the associated HTTP request data for the one or more HTTP requests in a single stream.

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